

Shubham Bajpai

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EDUCATION

- **International Institute of Information Technology, Bangalore**
Master of Technology in Information Technology — CGPA: 3.28/4 *July 2017 – July 2019*
- **Shri Shankaracharya Group Of Institutions, Bhilai**
Bachelor of Engineering in Computer Science and Engineering — CGPA: 8.09/10 *Aug. 2013 – July 2017*
- **Holy Cross Sen. Sec. School, Kapa, Raipur**
12th Grade — 72.2% *2012*
- **Holy Cross Sen. Sec. School, Kapa, Raipur**
10th Grade — CGPA: 8.2/10 *2010*

EXPERIENCE

- **ClearTax** Bangalore, India
Software Engineering Intern *May 2018 - Present*
 - **MarketPlace:** Working as a back-end engineer in the MarketPlace team of ClearTax. Contributing to various feature additions and bug fixes.
 - **Fulfillment-Backend:** My work included developing new features like credit note service, leads services, adding reminder feature for follow up, report cron jobs service and many more along-with handling on call issues related to orders in marketplace.

SKILLS AND ABILITIES

- **Programming Languages:** C++, Java, Python
- **Query Languages:** SQL, CQL, HQL
- **Tools, Libraries and Frameworks:** Net Beans, Eclipse, Gurobi, PyCharm, Scikit, IntelliJ IDEA, Drop Wizard, Hibernate, Maven, GurobiPy
- **Areas of Interest:** Algorithms, Optimization, Machine Learning, Geographic Information Systems

PROJECTS

- **Indian Railways Route Optimization and Scheduling :** The objective of the project was to find a conflict free schedule for a set of trains in a given railway network satisfying some constraints. We deal with large scale railway network at the scale of Indian Railways. Indian Railways poses a computational challenge for finding an optimal schedule. We developed algorithm with capability to deal with a fraction of the overall requirement with the improvement of a block section.
- **User Engagement:** Developed a model for classification of users based on their visiting pattern and activities on the platform and send relevant nudges to boost user engagement on platform. Designed a custom classification algorithm with the improvement over other standard algorithms.
- **Programming Language Skroth and Interpreter Valyria:** Developed an experimental programming language inspired by Game Of Thrones and the syntax derived from quotes and phrases of the book series The Song of Ice and Fire.
- **Crime Based Grading and Mapping Safe Zones:** Developed a GIS based application capable of finding safe zones geographically based on previous crime data of a region and plotting a safety level map so as to classify unsafe zones and safe zones in a city.

ACHIEVEMENTS

- Secured **AIR 36** All India Rank in **JEST 2017**.
- Secured **AIR 1087** in **GATE 2018**.
- Secured **AIR 937** in **GATE 2017**.
- Secured **AIR 753** in **CodeVita 2016**.
- Hackerrank rank 2692* and **96 percentile** $O(\log n)$ in algorithms.